

**Lattice functions in the Booster with and
without quadrupole correctors. Length of
the Orbit Bump was corrected to 0.4823 m
instead of 0.46443 m.**

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corrector	correction No.2		correction No.2 with equal tune		correction No.1		correction Nov. 20, 2003	
	current A	current A	current A	current A	current A	current A	current A	current A
iql01	0.000	-	-0.262	-	0.000	-	0.660	-
iqs01	-	0.029	-	0.056	-	0.029	-	0.430
iql02	0.508	-	0.246	-	0.508	-	-0.815	-
iqs02	-	-0.101	-	-0.074	-	-0.101	-	-0.330
iql03	-0.264	-	-0.526	-	-0.264	-	-0.264	-
iqs03	-	-0.217	-	-0.190	-	-0.217	-	-0.517
iql04	-0.148	-	-0.410	-	-0.148	-	0.720	-
iqs04	-	0.211	-	0.238	-	0.211	-	0.513
iql05	0.280	-	0.018	-	0.280	-	0.461	-
iqs05	-	-0.420	-	-0.393	-	-0.420	-	-0.322
iql06	0.240	-	-0.022	-	0.240	-	-0.520	-
iqs06	-	-0.171	-	-0.144	-	-0.171	-	-0.515
iql07	-0.493	-	-0.755	-	-0.478	-	-0.312	-
iqs07	-	0.418	-	0.445	-	0.395	-	0.442
iql08	-0.376	-	-0.638	-	-0.296	-	0.235	-
iqs08	-	-0.036	-	-0.009	-	0.240	-	0.415
iql09	0.343	-	0.081	-	0.265	-	-0.515	-
iqs09	-	-0.126	-	-0.099	-	-0.403	-	-0.270
iql10	0.794	-	0.532	-	-0.135	-	-0.645	-
iqs10	-	0.072	-	0.099	-	0.173	-	0.085
iql11	0.518	-	0.256	-	-0.682	-	0.005	-
iqs11	-	0.313	-	0.340	-	0.308	-	0.445
iql12	0.752	-	0.490	-	-0.301	-	-0.115	-
iqs12	-	-0.500	-	-0.473	-	-0.318	-	-0.180

Table 1: **Booster quadrupole correctors current at injection with quadrupole correction No.1 (before shutdown), No.2, No.2 (with equal tune) and correction from Nov. 20, 2003.** Betatron tune in version with quadrupole correction No.2 (with equal tune) is changed to be equal to the tune in version of Nov. 20, 2003. First part.

corrector	correction No.2		correction No.2 with equal tune		correction No.1		correction Nov. 20, 2003	
	current A	current A	current A	current A	current A	current A	current A	current A
iql13	0.003	-	-0.259	-	0.413	-	-0.105	-
iqs13	-	-0.210	-	-0.183	-	-0.386	-	-0.055
iql14	0.722	-	0.460	-	-0.552	-	-0.395	-
iqs14	-	0.235	-	0.262	-	0.372	-	0.260
iql15	0.195	-	-0.067	-	-0.563	-	-0.350	-
iqs15	-	0.499	-	0.526	-	0.011	-	-0.140
iql16	0.248	-	-0.014	-	0.189	-	0.080	-
iqs16	-	-0.109	-	-0.082	-	-0.322	-	-0.285
iql17	0.366	-	0.104	-	0.256	-	-0.490	-
iqs17	-	0.490	-	0.517	-	0.206	-	0.220
iql18	-0.459	-	-0.721	-	-0.698	-	-0.310	-
iqs18	-	0.378	-	0.405	-	0.624	-	-0.055
iql19	0.758	-	0.496	-	-0.296	-	-0.270	-
iqs19	-	-0.378	-	-0.351	-	-0.247	-	-0.065
iql20	0.538	-	0.276	-	0.445	-	0.350	-
iqs20	-	-0.481	-	-0.454	-	-0.626	-	0.150
iql21	-0.563	-	-0.825	-	-0.370	-	-0.385	-
iqs21	-	0.262	-	0.289	-	0.204	-	0.060
iql22	-0.642	-	-0.904	-	-0.662	-	-0.665	-
iqs22	-	-0.468	-	-0.441	-	-0.336	-	-0.650
iql23	0.061	-	-0.201	-	0.235	-	0.705	-
iqs23	-	-0.205	-	-0.178	-	-0.133	-	0.025
iql24	-0.340	-	-0.602	-	0.497	-	-0.045	-
iqs24	-	-0.202	-	-0.175	-	-0.303	-	0.210

Table 2: **Booster quadrupole correctors current at injection with quadrupole correction No.1 (before shutdown), No.2, No.2 (with equal tune) and correction from Nov. 20, 2003.** Betatron tune in version with quadrupole correction No.2 (with equal tune) is changed to be equal to the tune in version of Nov. 20, 2003. Second part.

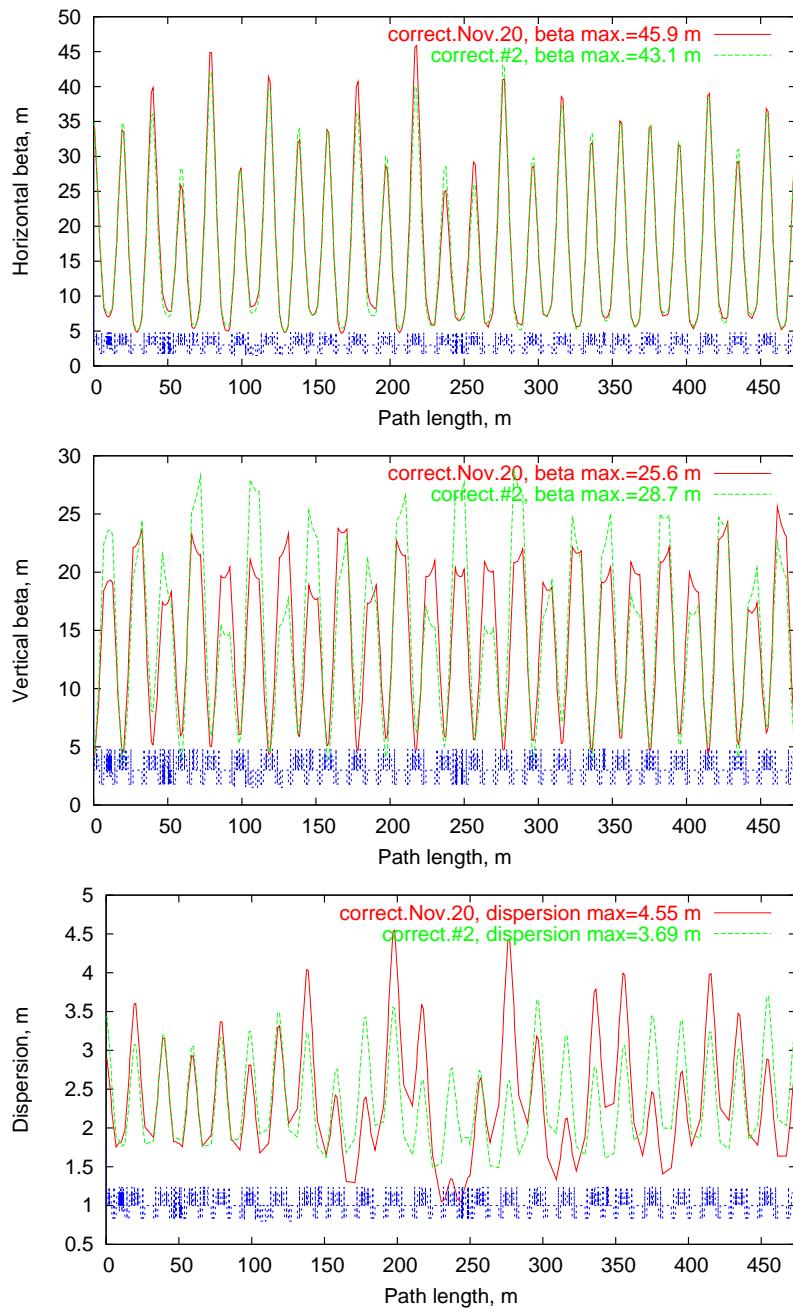


Figure 1: **Booster β -functions and dispersion at injection with quadrupole correction No.2 and correction from Nov. 20, 2003.**